AK60A

50 Watts

AK60A-50 Economy Series

Total Power	*50 Watts*
Input Voltages	*24V*
# of Outputs	*Single*

AK60A Technical Manual - Click Here

SPECIAL FEATURES

- High efficiency - up to 87%
- 500 KHz Fixed frequency
- 100°C Baseplate operating temperature (no derating)
- Low output ripple and noise
- Excellent transient response
- High reliability - over 1 million hours MTBF
- Wide input voltage range
- TTL compatible enable control
- Adjustable output voltage
- Overtemperature and short circuit protection

ENVIRONMENTAL

Operating temperature (baseplate): -40°C to +100°C

Storage temperature: -55°C to +105°C

Overtemperature protection: 110°C typical

MTBF: > 1 million hours (50°C baseplate)

SAFETY

UL	UL 1950	E182206
CSA	CSA22.2-234 CSA22.2-950	LR53982C
VDE	IEC950	20396-3336-1013*
EN	60950*	
CE	CEMark (LVD)*	

* On selected models

ELECTRICAL SPECIFICATIONS

Input

Input Range ..... 18 to 36 VDC

Efficiency ..... 83% typical (5V @ 10A);
87% typical (12V @ 4.2A)

Control

Voltage Adjust ..... 90 to 110% Vo

Enable ..... TTL compatible (low to enable)

Output

Load Regulation ..... 0.2% typical

Line Regulation ..... 0.2% typical

Noise/Ripple ..... 150 mV typical (output below 5V)
3% typical (output 5V and over)

Remote sense ..... Up to 0.5V

Output Voltage
Adjust Range ..... ±10% of nominal output

Transient Response ..... 10% maximum deviation with 500µs (25-75% full load) recovery

Overvoltage Protection ..... 130% nominal Vo
160% nominal Vo (2.2V output)
140% nominal Vo (3.3V output)

Current Limit ..... 115% Io maximum

NOTES

Nominal values apply with sense pins connected and other control pins unconnected.

Specifications subject to change without notice.

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AMERICAS
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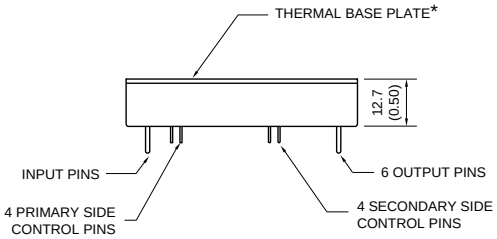
ORDERING INFORMATION

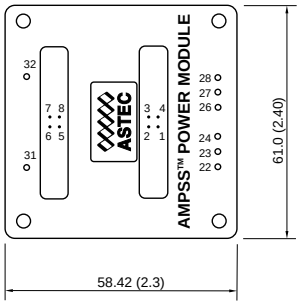
Input Voltage	Output Voltage	Output Current	Model Number
24V	2.2V	10A	AK60A-024L-022F10G
24V	3.3V	10A	AK60A-024L-033F10G
24V	5V	10A	AK60A-024L-050F10G
24V	12V	4.2A	AK60A-024L-120F04G
24V	15V	3.3A	AK60A-024L-150F03G
24V	24V	2A	AK60A-024L-240F02G

Please contact Astec for information on other output voltages, power ranges and configurations.

DIMENSIONS



**Must be connected to protective earth*



Viewed from pins side. Dimensions in mm (inches)

PIN ASSIGNMENTS

Input	Output	Control Pins
31. +ve	22. } +ve	1. +SENSE } Secondary side controls
32. –ve	23. } +ve	2. RSV } Secondary side controls
	24. } +ve	3. V ADJ } Secondary side controls
	26. } –ve	4. -SENSE } Secondary side controls
	27. } –ve	5. S COM } Primary side controls
	28. } –ve	6. C. SHARE } Primary side controls
		7. ENABLE } Primary side controls
		8. CLK IN } Primary side controls

CONNECTIONS